

IN THE CLAIMS

Claims 95 and 96 have been cancelled. New claims 101 and 102 have been added. Claims 90-94 and 97-102 are pending in the present application. The following is the status of the claims of the above-captioned application, as amended.

1-89 (Cancelled).

90. (Previously presented) An isolated trichodiene synthase comprising the amino acid sequence of SEQ ID NO: 2.

91. (Previously presented) The trichodiene synthase of claim 90, consisting of the amino acid sequence of SEQ ID NO: 2.

92. (Previously presented) The trichodiene synthase of claim 90, which is obtained from a *Fusarium* strain.

93. (Previously presented) The trichodiene synthase of claim 92, wherein the *Fusarium* strain is a *Fusarium venenatum* strain.

94. (Previously presented) The trichodiene synthase of claim 93, wherein the *Fusarium venenatum* strain is *Fusarium venenatum* ATCC 20334.

95. (Cancelled).

96. (Cancelled).

97. (Currently amended) An isolated functional fragment of the trichodiene synthase of SEQ ID NO: 2, wherein one or more amino acids are deleted from the amino and/or carboxyl terminus of SEQ ID NO: 2 and the fragment retains the trichodiene synthase activity of SEQ ID NO: 2.

98. (Previously presented) The isolated functional fragment of claim 97, which is obtained from a *Fusarium* strain.

99. (Previously presented) The fragment of claim 98, wherein the *Fusarium* strain is a *Fusarium venenatum* strain.

100. (Previously presented) The fragment of claim 99, wherein the *Fusarium venenatum* strain is *Fusarium venenatum* ATCC 20334.

101. (Cancelled)

102. (Cancelled)

103. (New) An isolated trichodiene synthase having the amino acid sequence of SEQ ID NO: 2, which is encoded by the nucleic acid sequence of SEQ ID NO: 1.

104. (New) An isolated trichodiene synthase having the amino acid sequence of SEQ ID NO: 2, which is encoded by the nucleic acid sequence contained in plasmid pTri5 contained in *E. coli* NRRL B-30029.